09/451442

FIG. 1

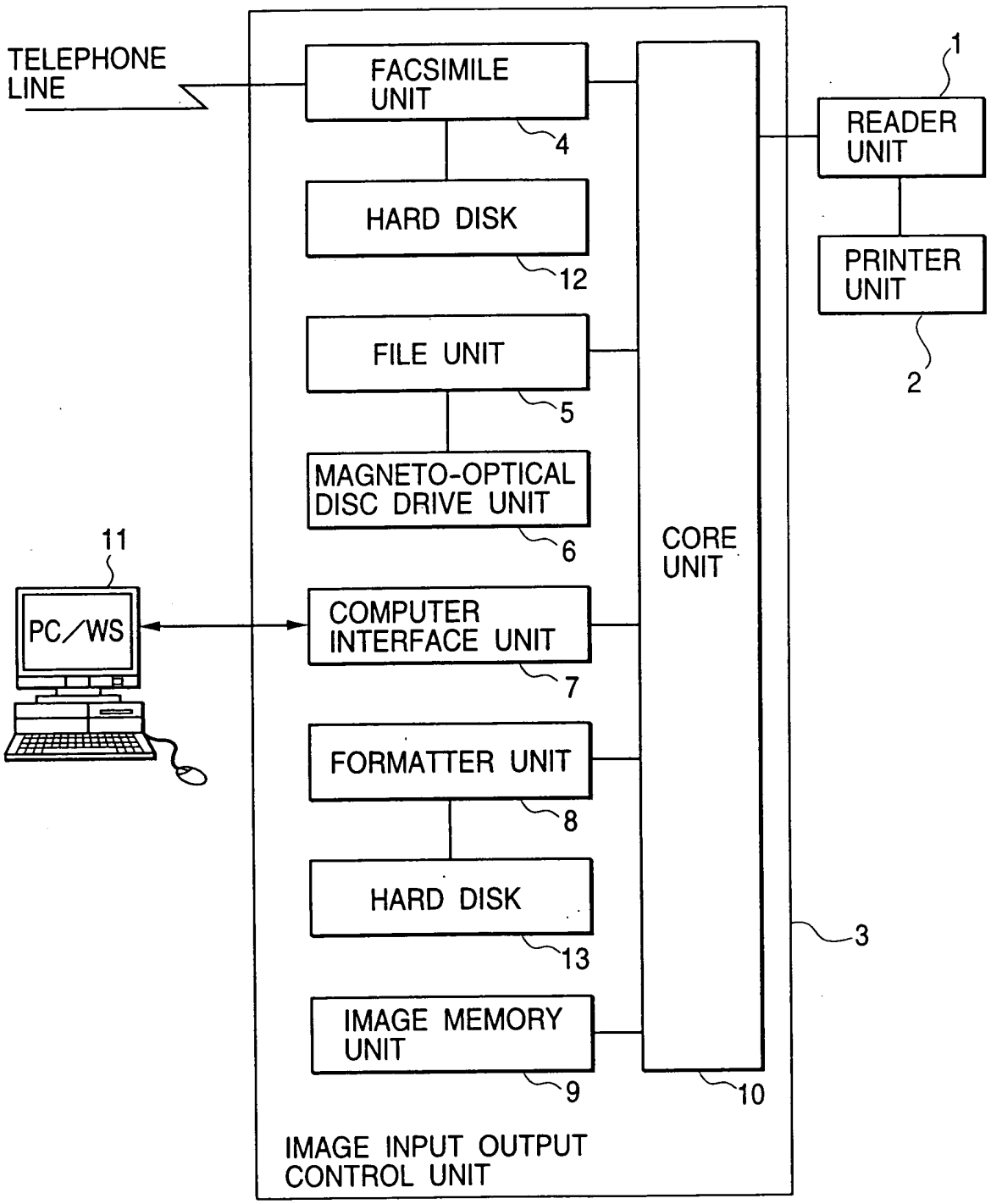


FIG. 2

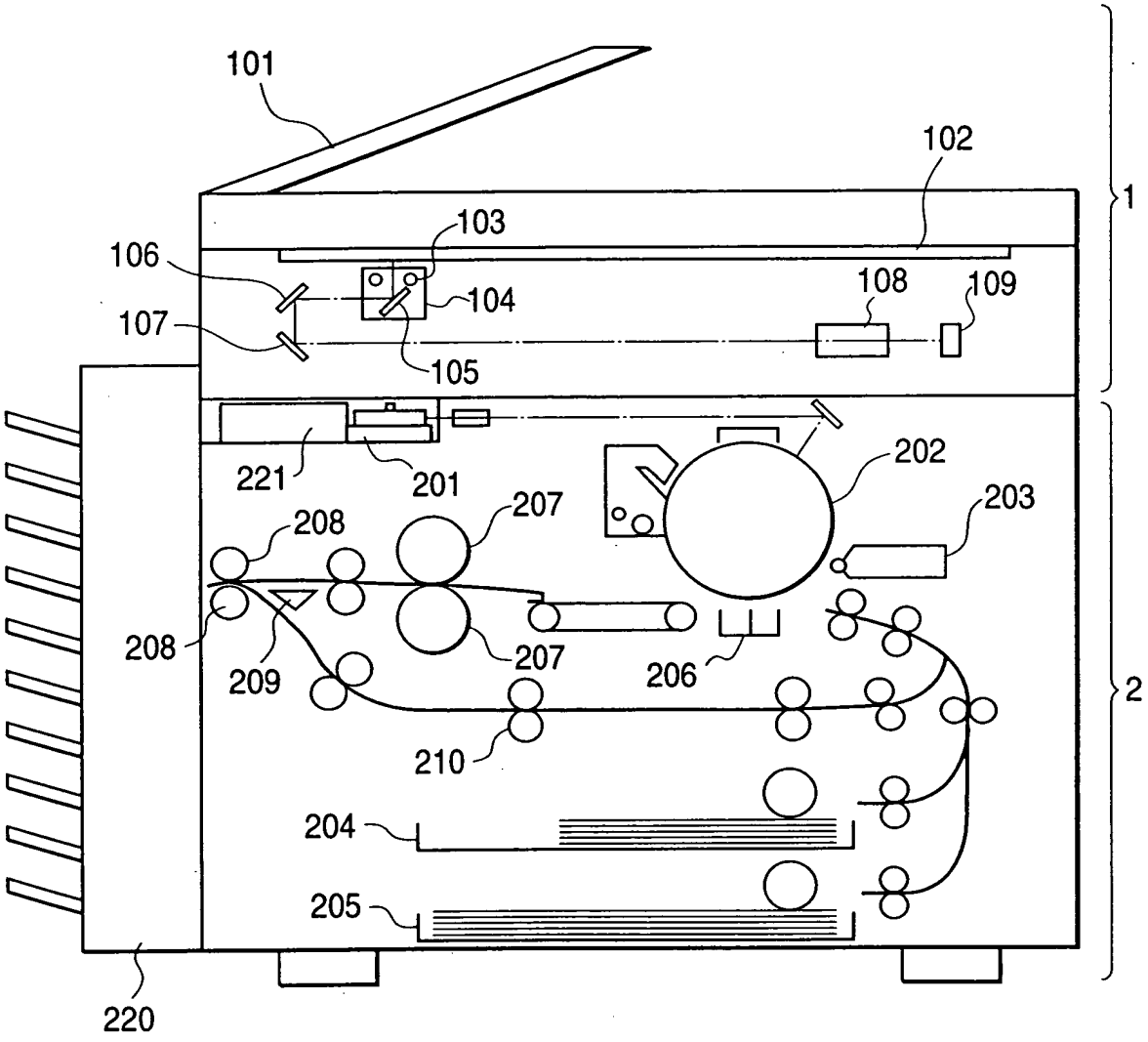

101
102
1
103
106
104
108
109
107
105
221
201
202
203
207
208
208
209
207
206
2
210
204
205
220

FIG. 3

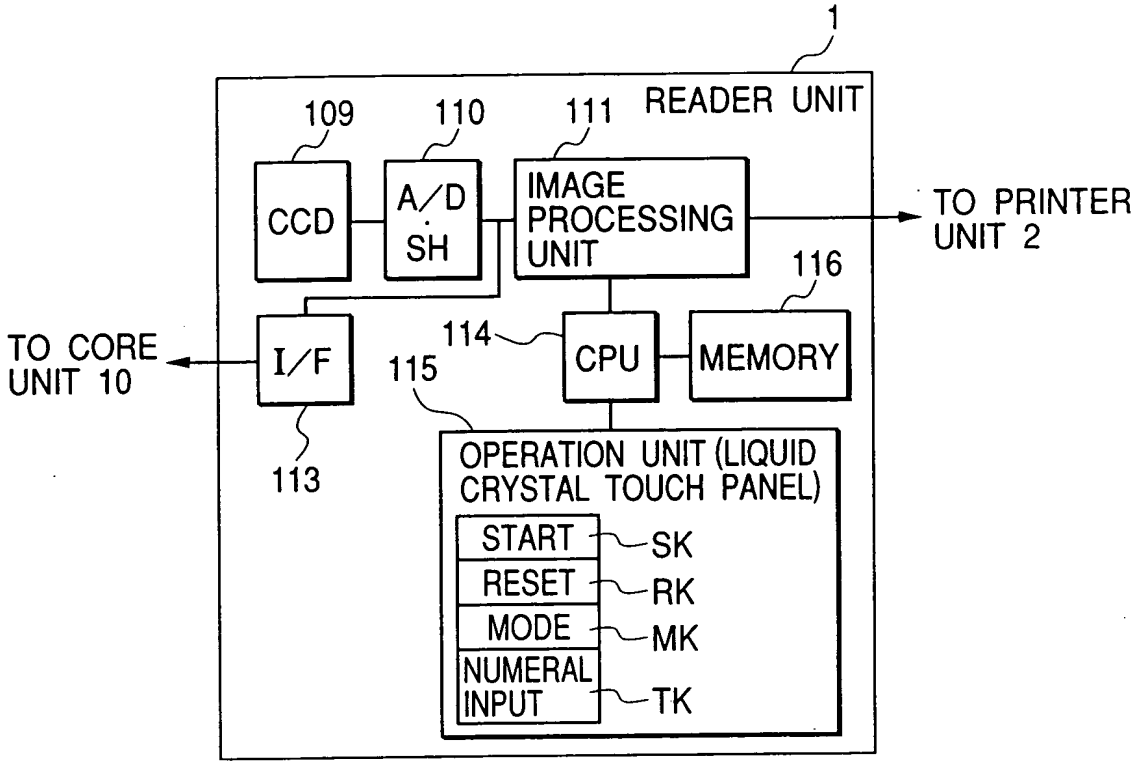

1
READER UNIT
109
110
111
CCD
A/D
SH
IMAGE
PROCESSING
UNIT
TO PRINTER
UNIT 2
116
TO CORE
UNIT 10
I/F
114
CPU
MEMORY
115
113
OPERATION UNIT (LIQUID
CRYSTAL TOUCH PANEL)
START
SK
RESET
RK
MODE
MK
NUMERAL
INPUT
TK

FIG. 4

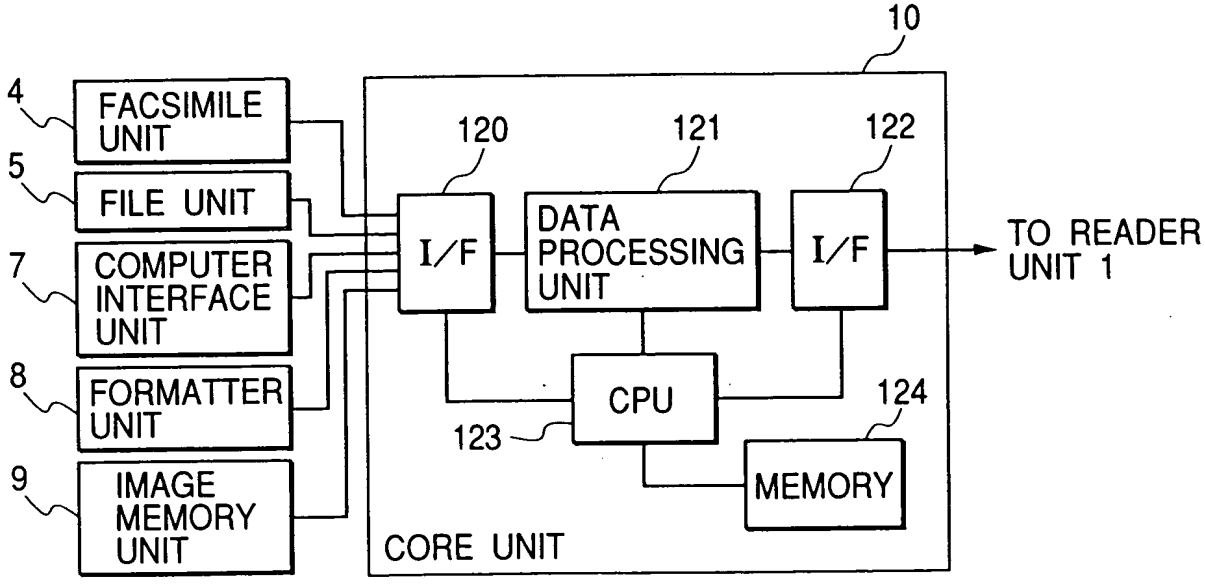

10
4
FACSIMILE
UNIT
5
FILE UNIT
7
COMPUTER
INTERFACE
UNIT
8
FORMATTER
UNIT
9
IMAGE
MEMORY
UNIT
120
121
122
I/F
DATA
PROCESSING
UNIT
I/F
TO READER
UNIT 1
CPU
123
124
MEMORY
CORE UNIT

FIG. 5

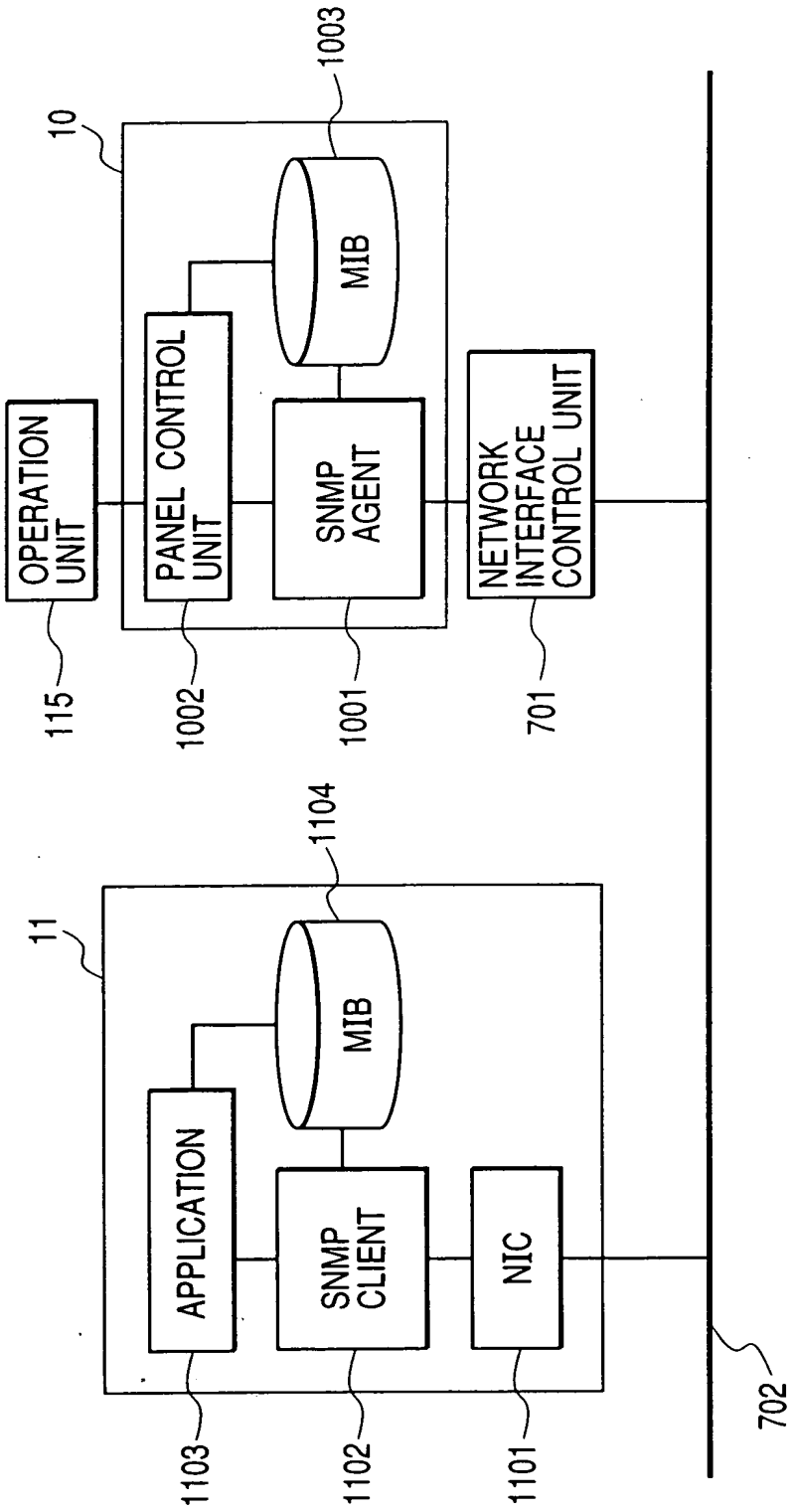

10
1003
MIB
OPERATION UNIT
PANEL CONTROL UNIT
SNMP AGENT
NETWORK INTERFACE CONTROL UNIT
115
1002
1001
701
11
1104
MIB
APPLICATION
SNMP CLIENT
NIC
1103
1102
1101
702

FIG. 6

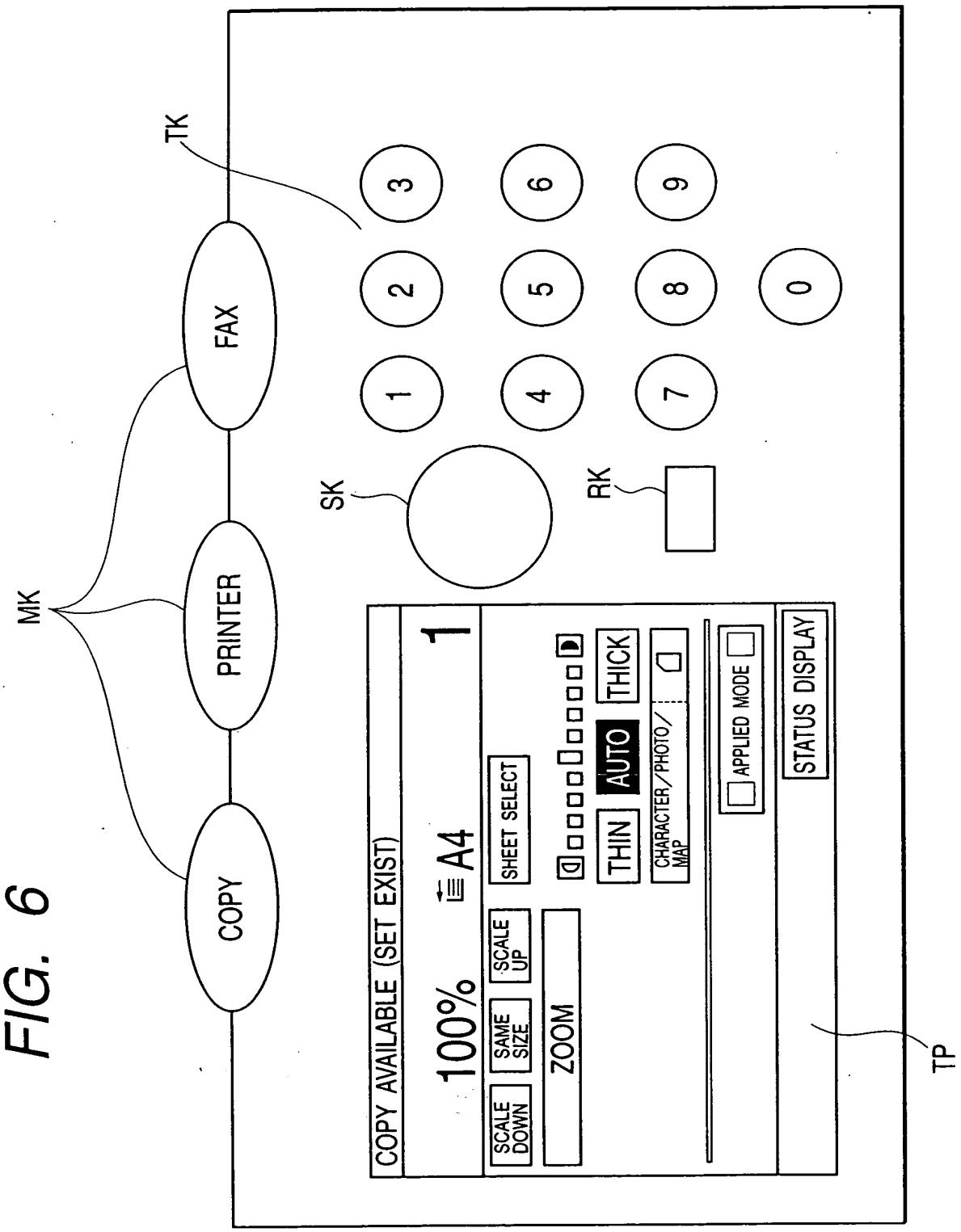

MK
COPY
PRINTER
FAX
TK
SK
RK
TP
1
2
3
4
5
6
7
8
9
0
COPY AVAILABLE (SET EXIST)
100%
A4
1
SCALE DOWN
SAME SIZE
SCALE UP
SHEET SELECT
ZOOM
THIN
AUTO
THICK
CHARACTER/PHOTO/MAP
APPLIED MODE
STATUS DISPLAY

FIG. 7

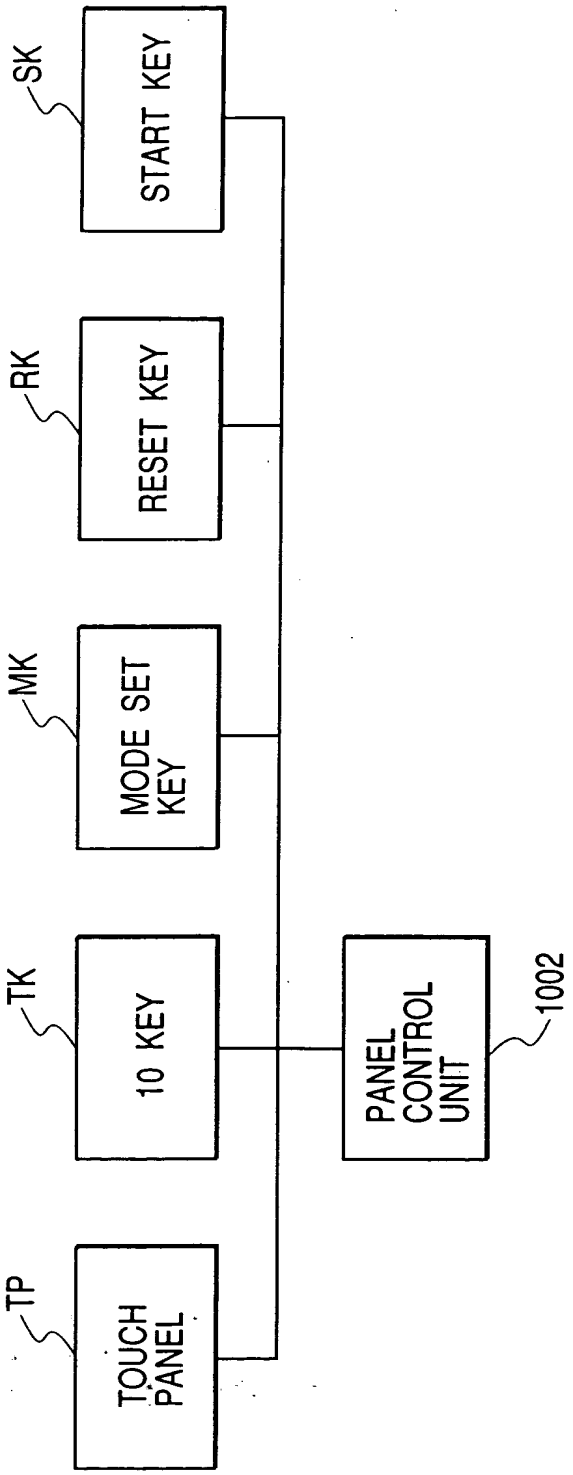

SK
START KEY
RK
RESET KEY
MK
MODE SET KEY
TK
10 KEY
TP
TOUCH PANEL
PANEL CONTROL UNIT
1002

FIG. 8

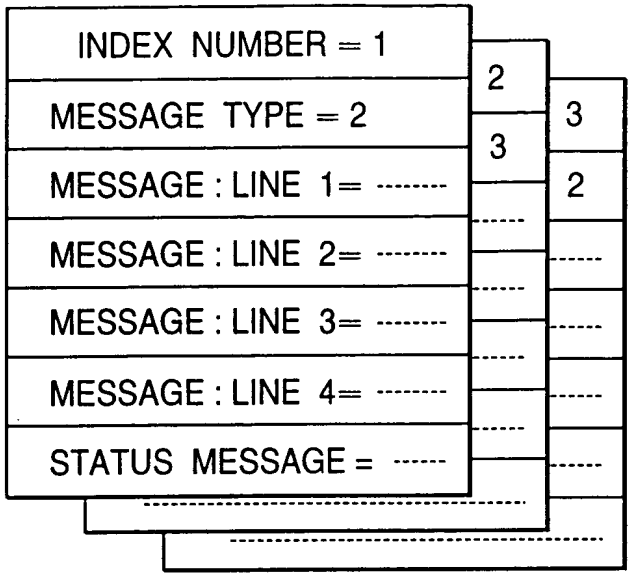

INDEX NUMBER = 1
MESSAGE TYPE = 2
MESSAGE : LINE 1= --------
MESSAGE : LINE 2= --------
MESSAGE : LINE 3= --------
MESSAGE : LINE 4= --------
STATUS MESSAGE = ------
2
3
3
2

FIG. 10

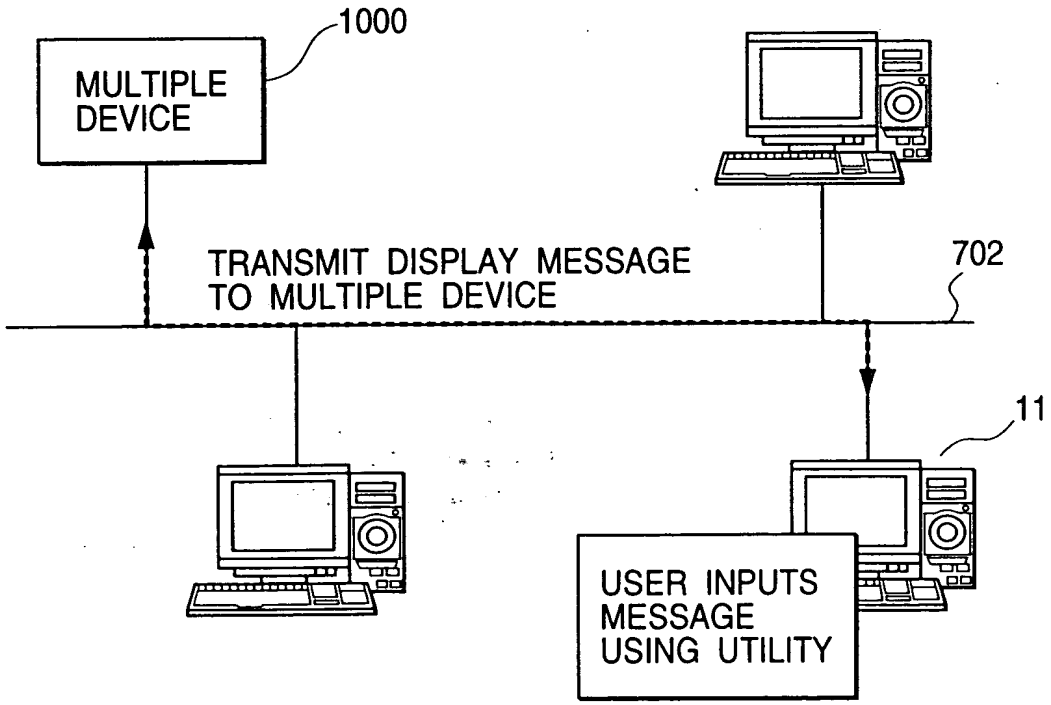

1000
MULTIPLE DEVICE
TRANSMIT DISPLAY MESSAGE TO MULTIPLE DEVICE
702
11
USER INPUTS MESSAGE USING UTILITY

FIG. 9

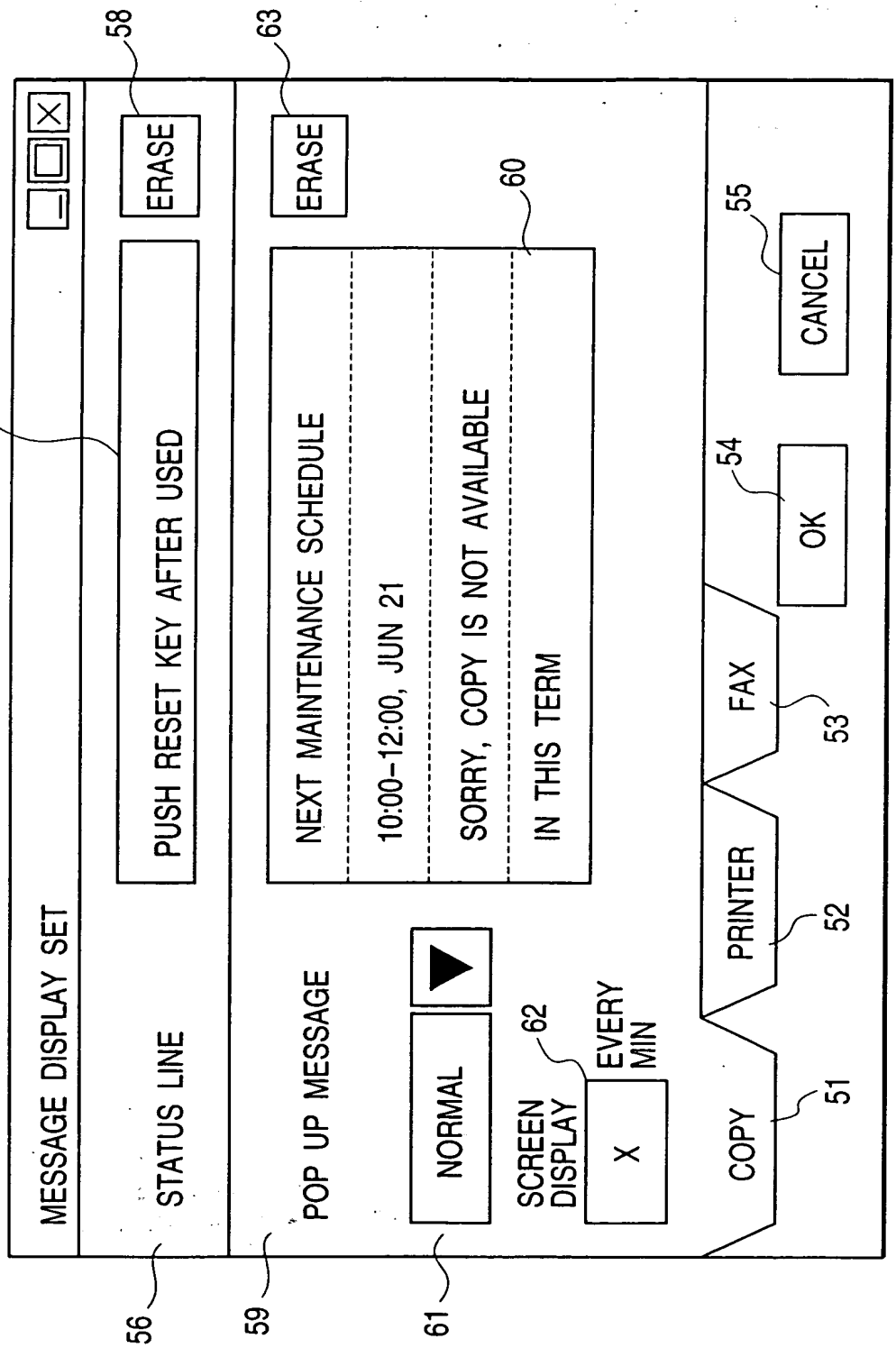

MESSAGE DISPLAY SET
STATUS LINE
PUSH RESET KEY AFTER USED
ERASE
POP UP MESSAGE
NEXT MAINTENANCE SCHEDULE
10:00–12:00, JUN 21
SORRY, COPY IS NOT AVAILABLE
IN THIS TERM
ERASE
NORMAL
SCREEN DISPLAY
X
EVERY MIN
COPY
PRINTER
FAX
OK
CANCEL
51
52
53
54
55
56
57
58
59
60
61
62
63

FIG. 11

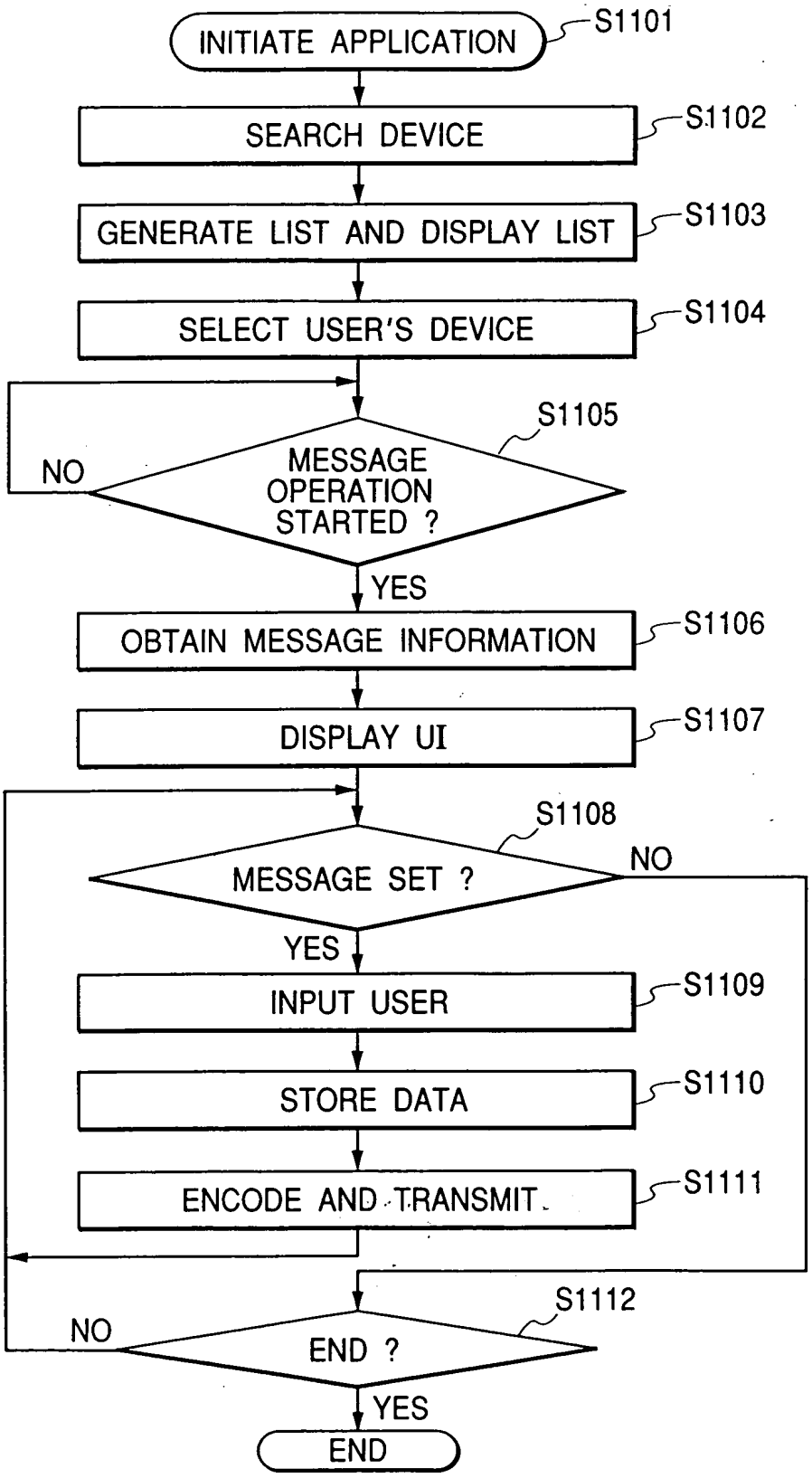

INITIATE APPLICATION
S1101
SEARCH DEVICE
S1102
GENERATE LIST AND DISPLAY LIST
S1103
SELECT USER'S DEVICE
S1104
S1105
MESSAGE OPERATION STARTED ?
NO
YES
OBTAIN MESSAGE INFORMATION
S1106
DISPLAY UI
S1107
S1108
MESSAGE SET ?
NO
YES
INPUT USER
S1109
STORE DATA
S1110
ENCODE AND TRANSMIT
S1111
S1112
END ?
NO
YES
END

FIG. 12

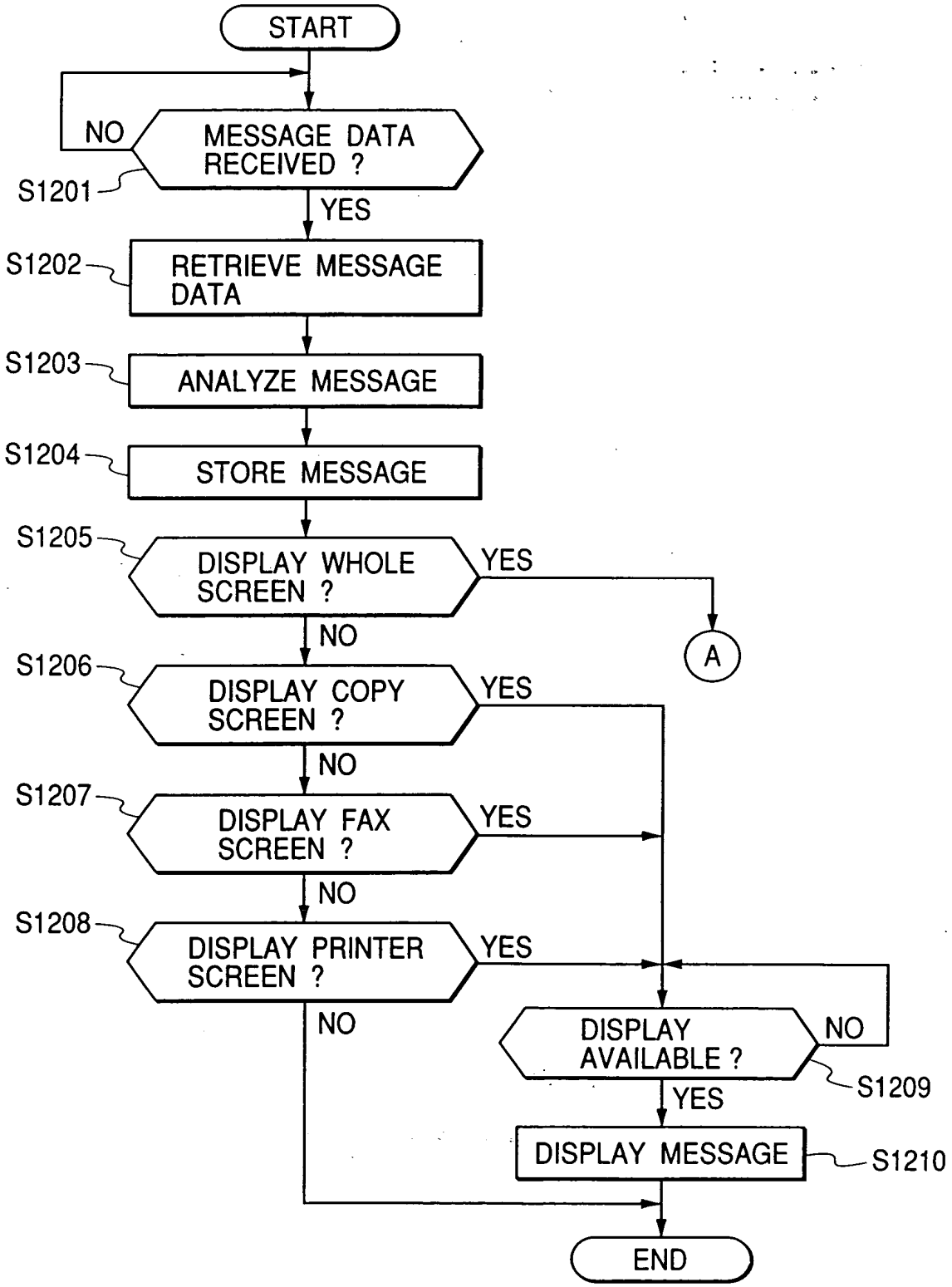

START
NO
MESSAGE DATA RECEIVED ?
S1201
YES
S1202
RETRIEVE MESSAGE DATA
S1203
ANALYZE MESSAGE
S1204
STORE MESSAGE
S1205
DISPLAY WHOLE SCREEN ?
YES
A
NO
S1206
DISPLAY COPY SCREEN ?
YES
NO
S1207
DISPLAY FAX SCREEN ?
YES
NO
S1208
DISPLAY PRINTER SCREEN ?
YES
NO
DISPLAY AVAILABLE ?
NO
S1209
YES
DISPLAY MESSAGE
S1210
END

FIG. 13

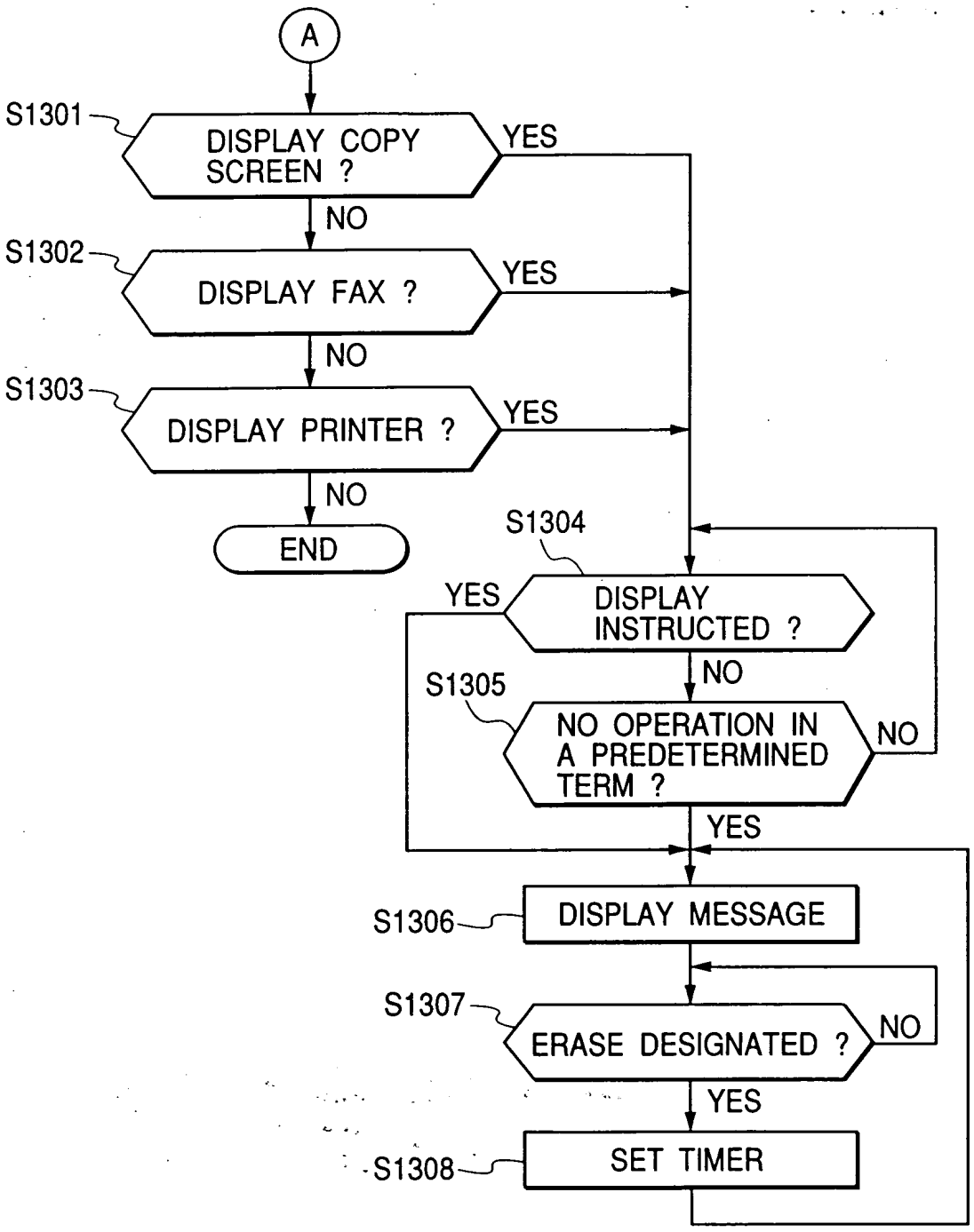

A
S1301
DISPLAY COPY SCREEN ?
YES
NO
S1302
DISPLAY FAX ?
YES
NO
S1303
DISPLAY PRINTER ?
YES
NO
END
S1304
YES
DISPLAY INSTRUCTED ?
NO
S1305
NO OPERATION IN A PREDETERMINED TERM ?
NO
YES
S1306
DISPLAY MESSAGE
S1307
ERASE DESIGNATED ?
NO
YES
S1308
SET TIMER

FIG. 14

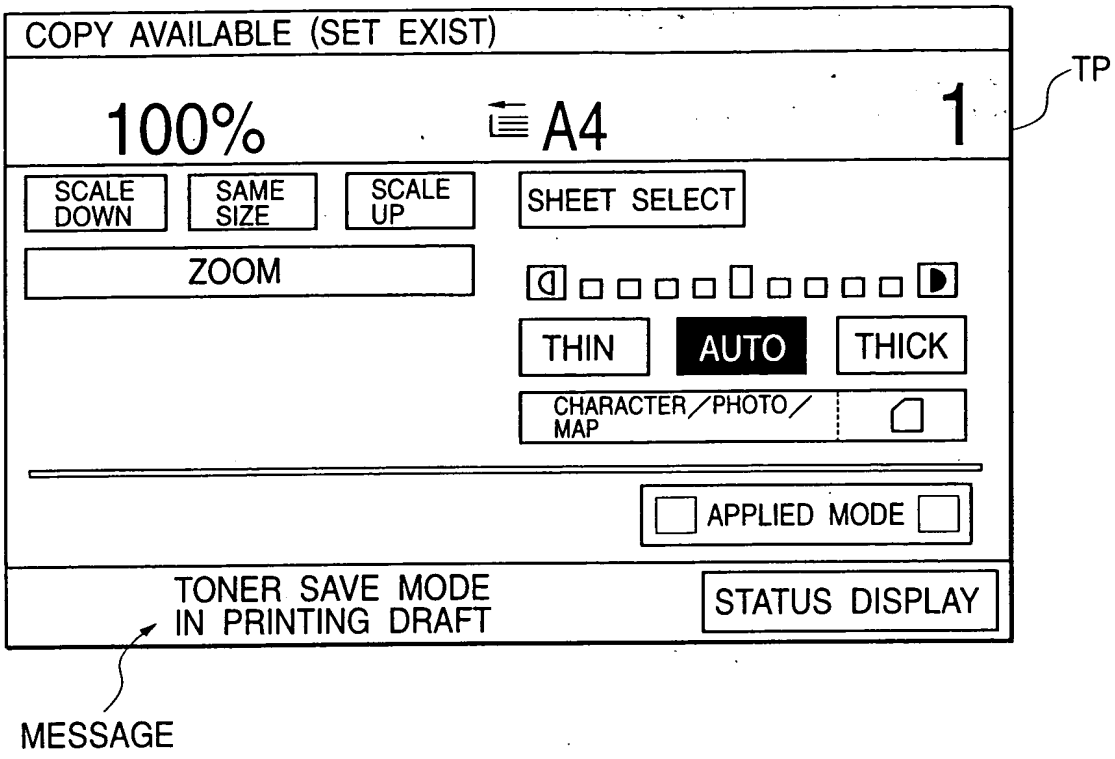

COPY AVAILABLE (SET EXIST)
100%
A4
1
TP
SCALE DOWN
SAME SIZE
SCALE UP
SHEET SELECT
ZOOM
THIN
AUTO
THICK
CHARACTER/PHOTO/MAP
APPLIED MODE
TONER SAVE MODE IN PRINTING DRAFT
STATUS DISPLAY
MESSAGE

FIG. 15

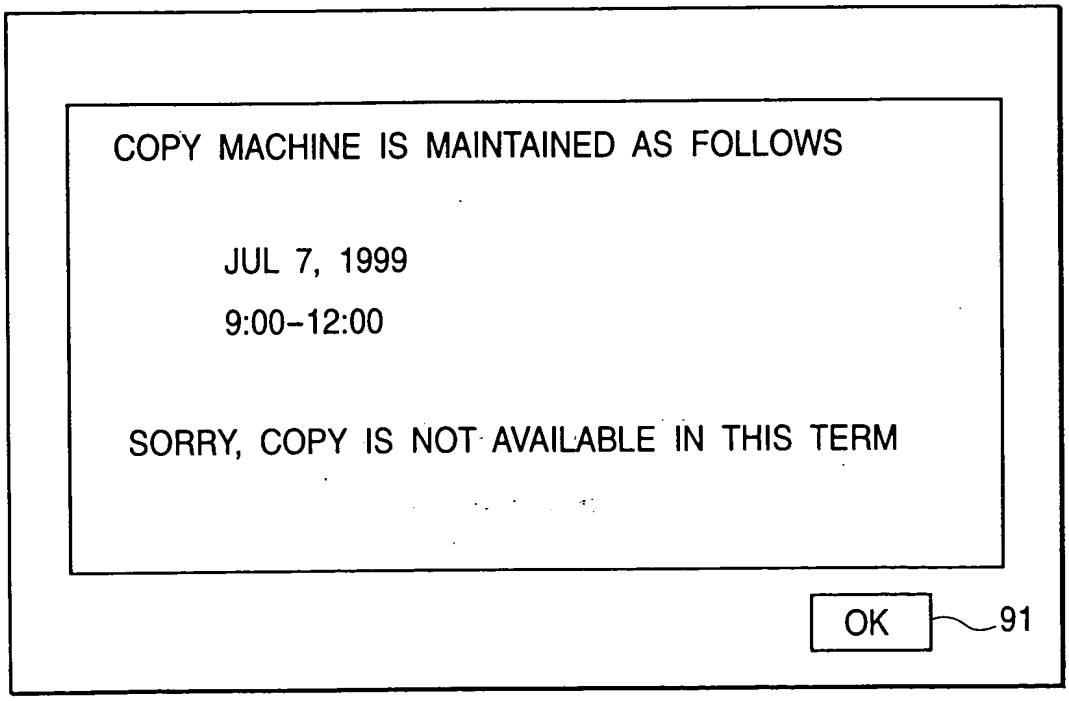

COPY MACHINE IS MAINTAINED AS FOLLOWS
JUL 7, 1999
9:00-12:00
SORRY, COPY IS NOT AVAILABLE IN THIS TERM
OK
91

FIG. 16

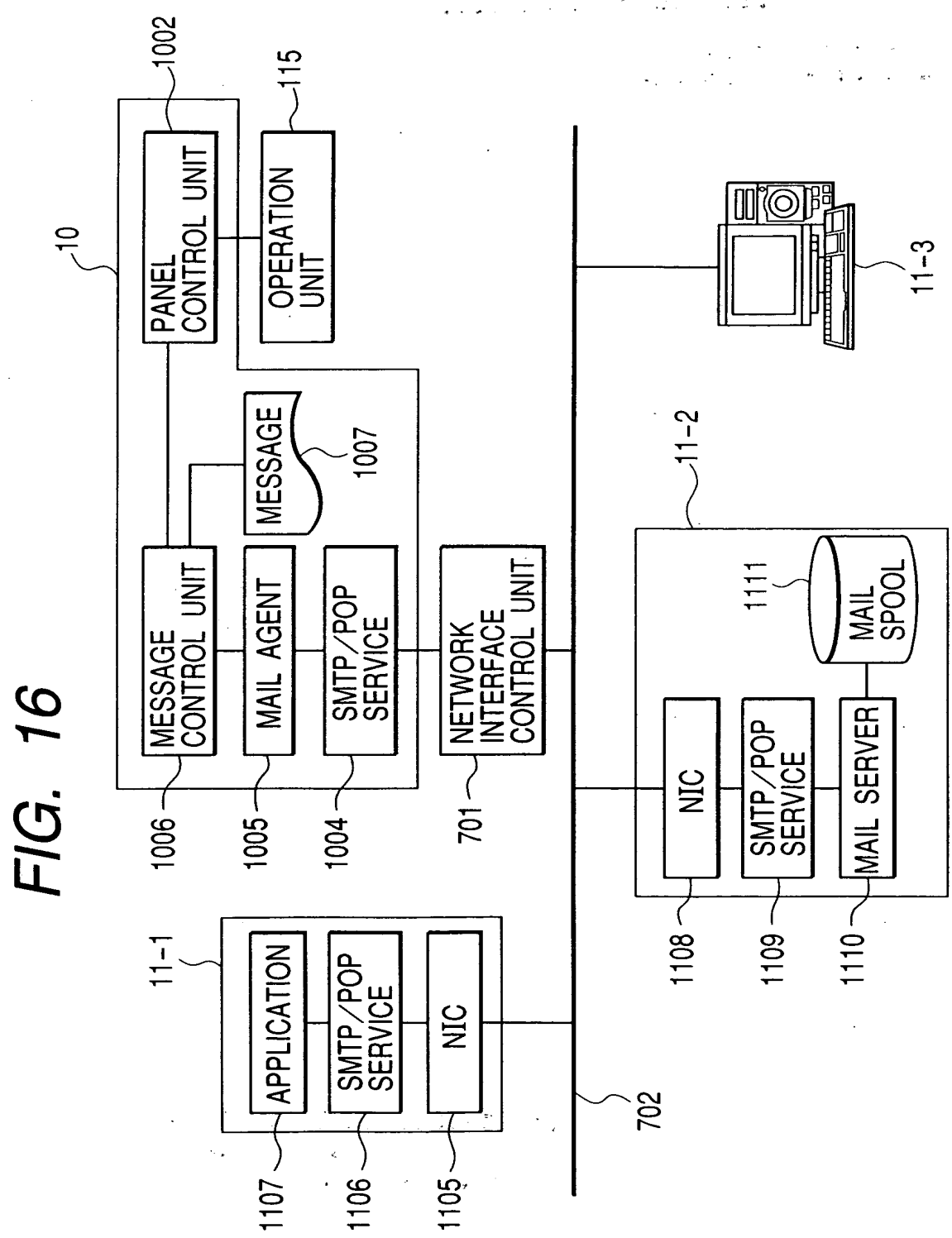

10
1002
PANEL CONTROL UNIT
115
OPERATION UNIT
MESSAGE
1007
MESSAGE CONTROL UNIT
MAIL AGENT
SMTP/POP SERVICE
NETWORK INTERFACE CONTROL UNIT
1006
1005
1004
701
11-1
APPLICATION
SMTP/POP SERVICE
NIC
1107
1106
1105
702
11-2
NIC
SMTP/POP SERVICE
MAIL SERVER
1111
MAIL SPOOL
1108
1109
1110
11-3

FIG. 17

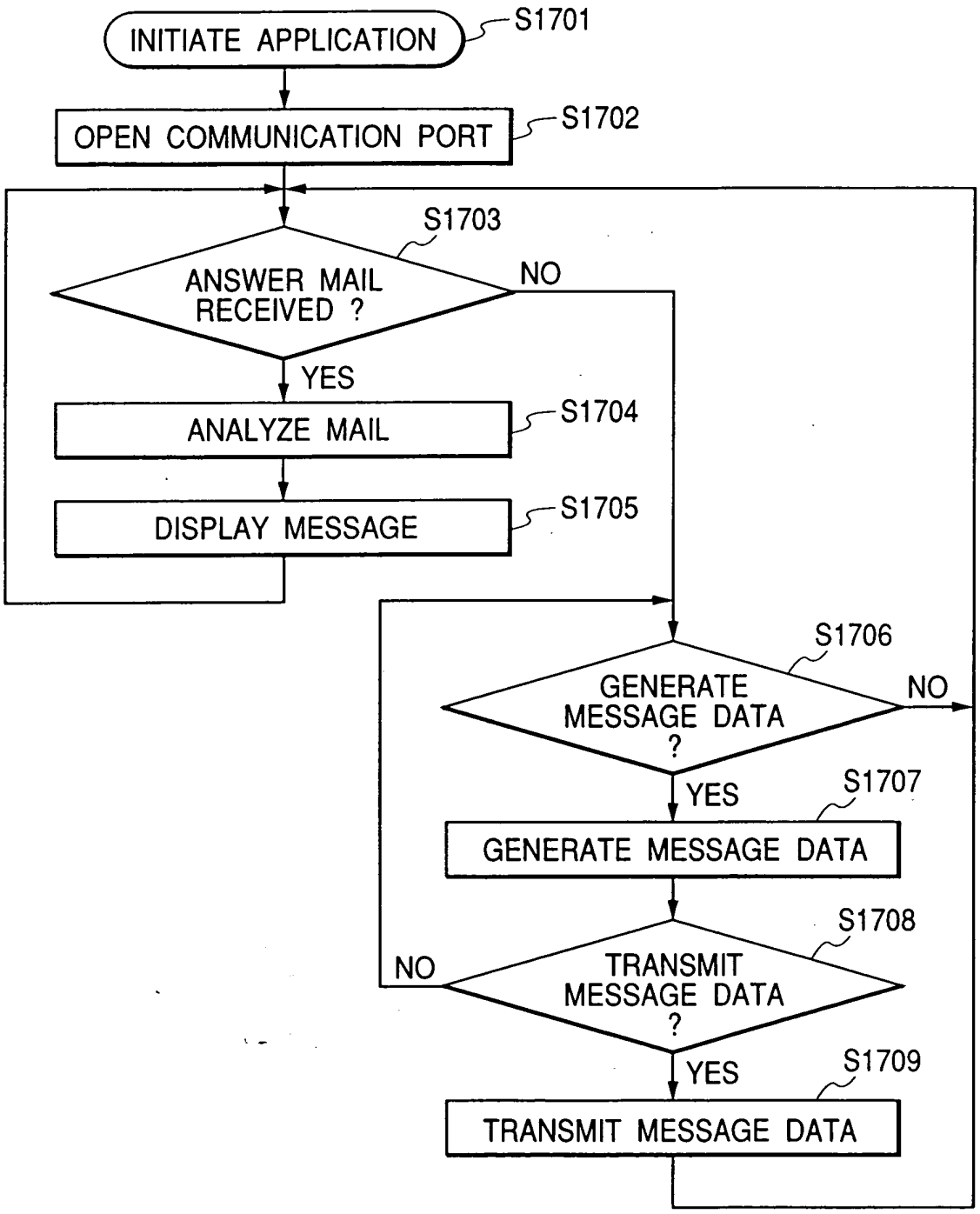

INITIATE APPLICATION
S1701
OPEN COMMUNICATION PORT
S1702
S1703
ANSWER MAIL RECEIVED ?
NO
YES
ANALYZE MAIL
S1704
DISPLAY MESSAGE
S1705
S1706
GENERATE MESSAGE DATA ?
NO
YES
S1707
GENERATE MESSAGE DATA
S1708
NO
TRANSMIT MESSAGE DATA ?
YES
S1709
TRANSMIT MESSAGE DATA

FIG. 18

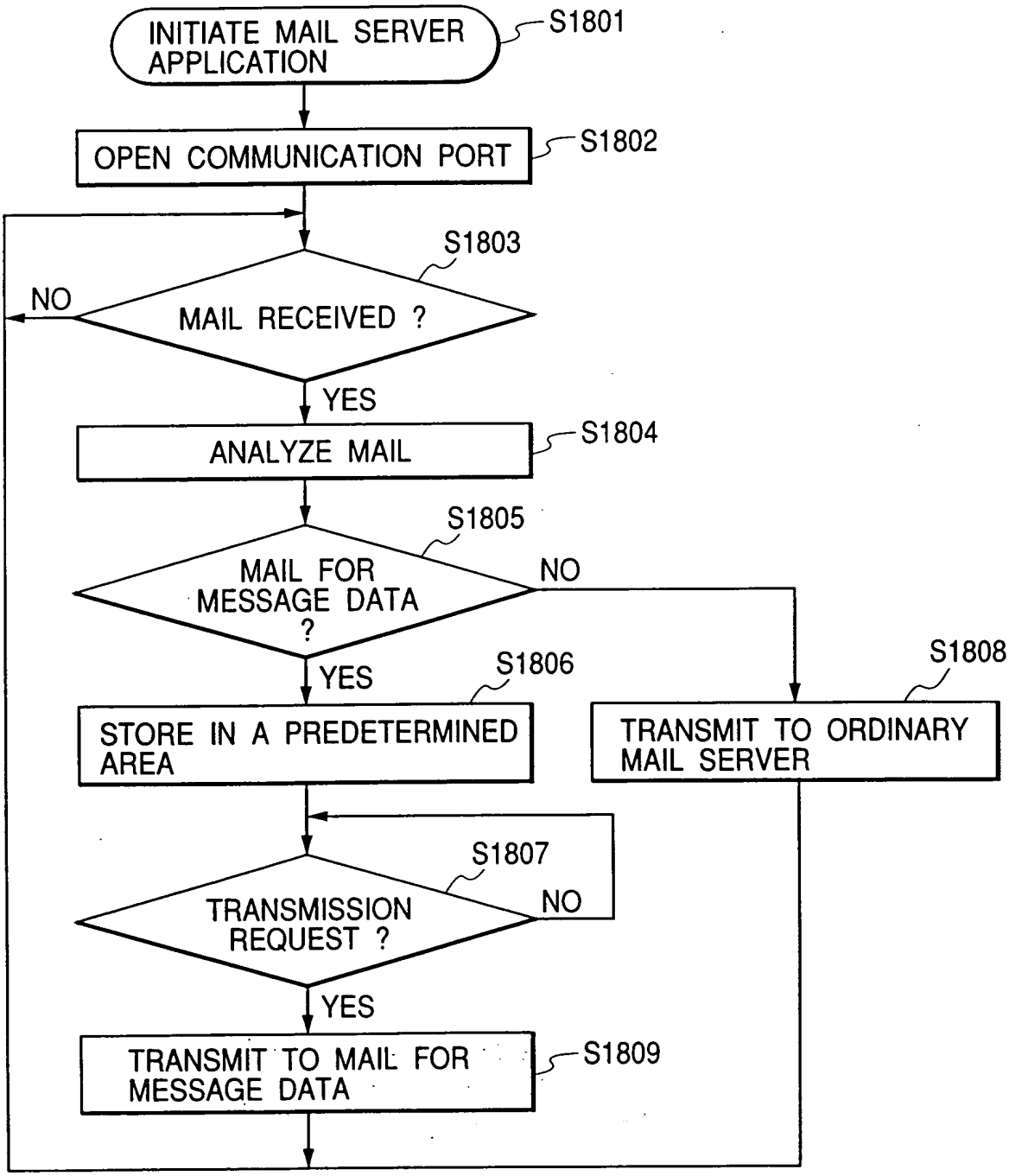

INITIATE MAIL SERVER APPLICATION
S1801
OPEN COMMUNICATION PORT
S1802
S1803
MAIL RECEIVED ?
NO
YES
ANALYZE MAIL
S1804
S1805
MAIL FOR MESSAGE DATA ?
NO
YES
S1806
STORE IN A PREDETERMINED AREA
S1808
TRANSMIT TO ORDINARY MAIL SERVER
S1807
TRANSMISSION REQUEST ?
NO
YES
TRANSMIT TO MAIL FOR MESSAGE DATA
S1809

FIG. 19

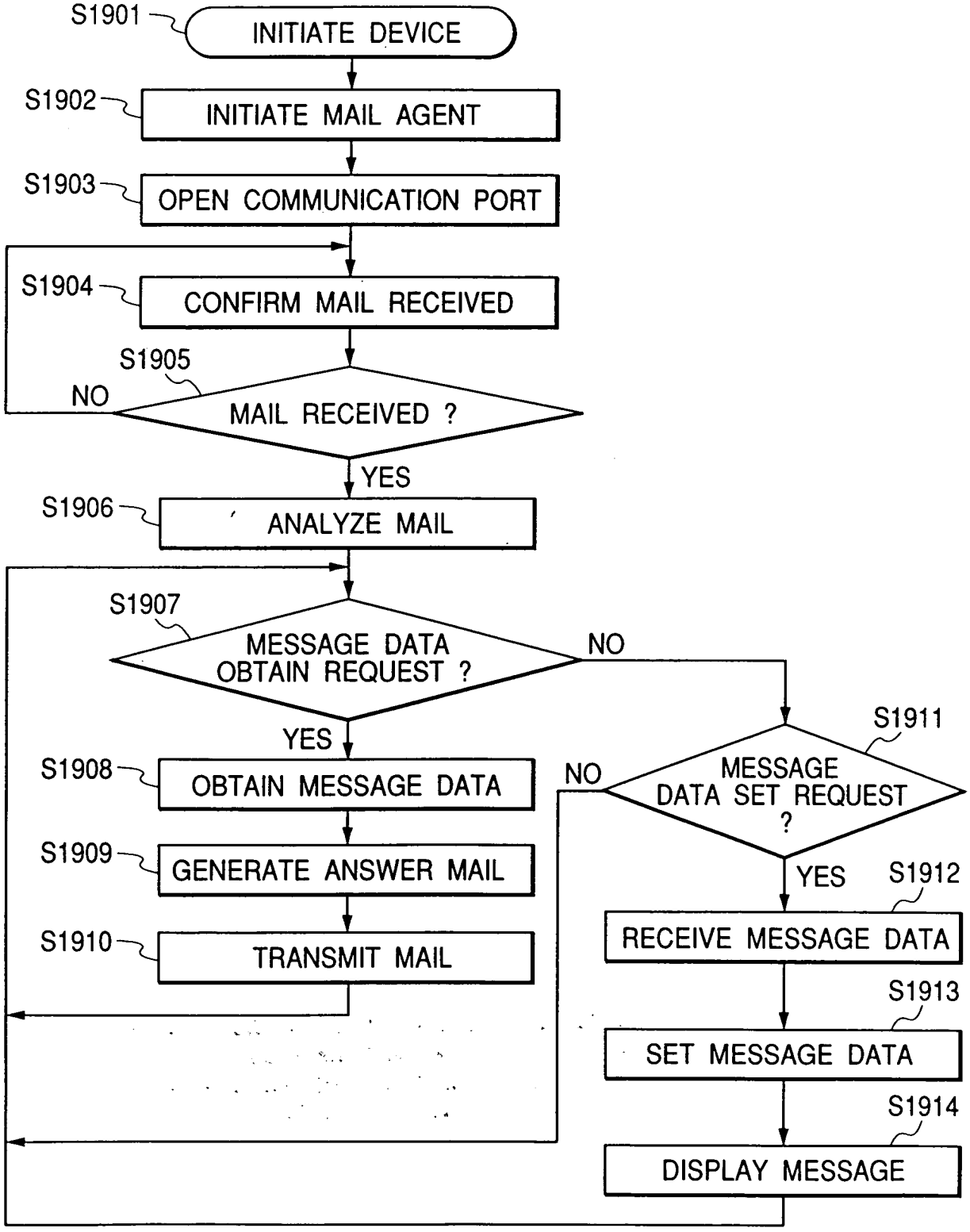

S1901
INITIATE DEVICE
S1902
INITIATE MAIL AGENT
S1903
OPEN COMMUNICATION PORT
S1904
CONFIRM MAIL RECEIVED
S1905
NO
MAIL RECEIVED ?
YES
S1906
ANALYZE MAIL
S1907
MESSAGE DATA OBTAIN REQUEST ?
NO
YES
S1908
OBTAIN MESSAGE DATA
S1909
GENERATE ANSWER MAIL
S1910
TRANSMIT MAIL
S1911
NO
MESSAGE DATA SET REQUEST ?
YES
S1912
RECEIVE MESSAGE DATA
S1913
SET MESSAGE DATA
S1914
DISPLAY MESSAGE

FIG. 20

```
From : "Takeshi OYA" <oya@shimomaruko.canon.co.jp>
To : Printer1@shimomaruko.canon.co.jp
Subject : Set
Date : Fri, 4 Jun 1999 11:01:08 +0900
X-Priority : 3
Received : from mail1.canon.co.jp with ESMTP id LAA29178 ; Fri, 4 Jun 1999
11:00:35 +0900 (JST)
Message-ID : <0D111989A00A0C9AAA9282A250D@shimomaruko.canon.co.jp>
MIME-Version : 1.0
X-Mailer : Internet Mail Service (5.5.2448.0)
Content-Type : text/plain ; charset='iso-2022-jp'
X-UIDL : DU> ejox0 !!+5e9je !!

TYPE = 3
LINE1 = "NEXT MAINTENANCE SCHEDULE"
LINE2 = "10:00-12:00, JUN 22"
LINE3 = "COPY IS NOT AVAILABLE IN THIS TERM"
LINE4 = "SORRY"
PANEL = "COPY"
STATUS = "PUSH RESET KEY AFTER USED"
```

FIG. 21

```
To : "Takeshi OYA" <oya@shimomaruko.canon.co.jp>
Subject : Reply to your request.

Urgent Mode (COPY SCREEN)
"NEXT MAINTENANCE SCHEDULE"
"10:00-12:00, JUN 22"
"COPY IS NOT AVAILABLE IN THIS TERM"
"SORRY"
STATUS MESSAGE = "PUSH RESET KEY AFTER USED"
```

FIG. 22

PRIORITY	DISPLAY COLOR
1	RED
2	PINK
3	BLUE

FIG. 23

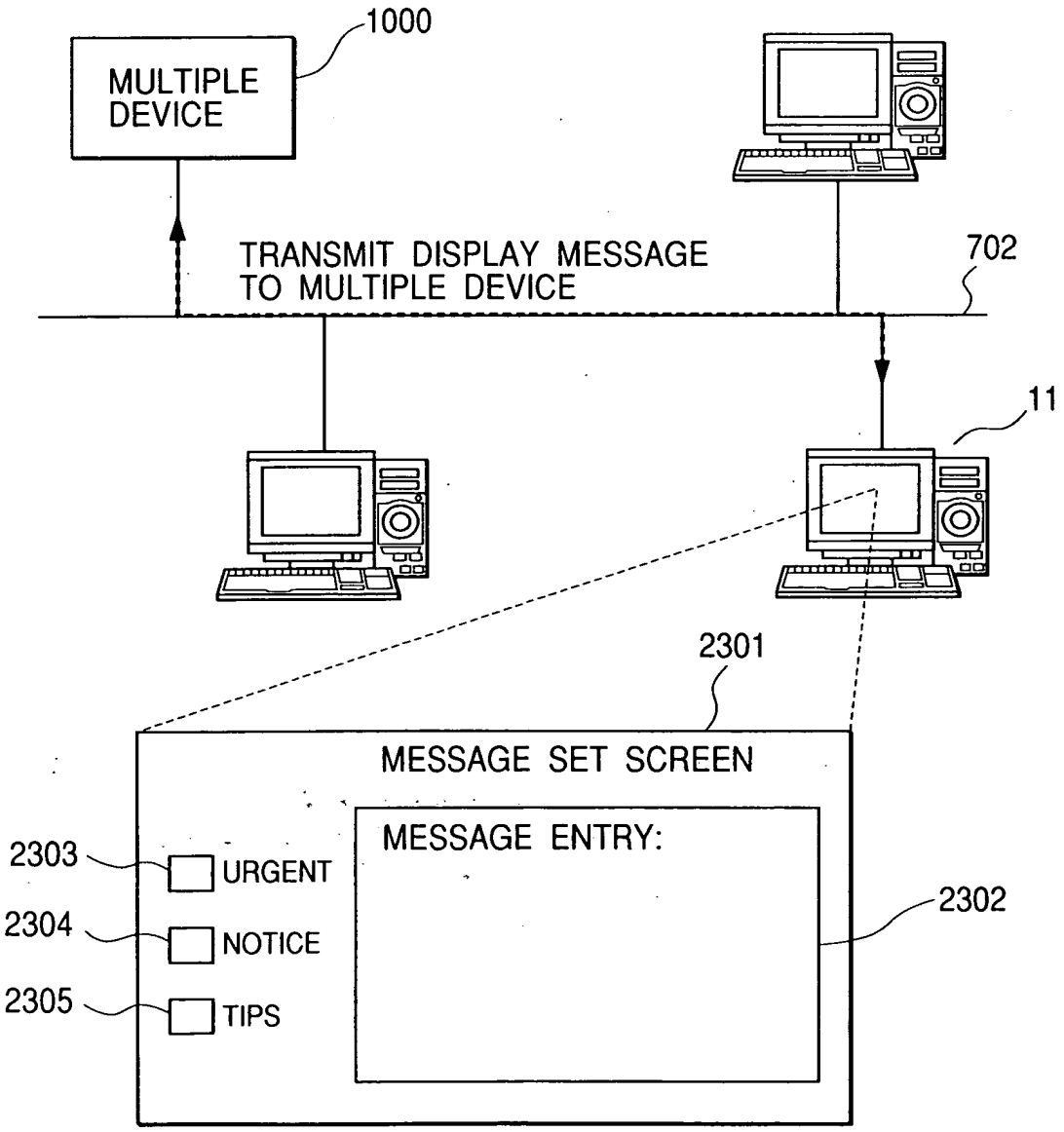


FIG. 24

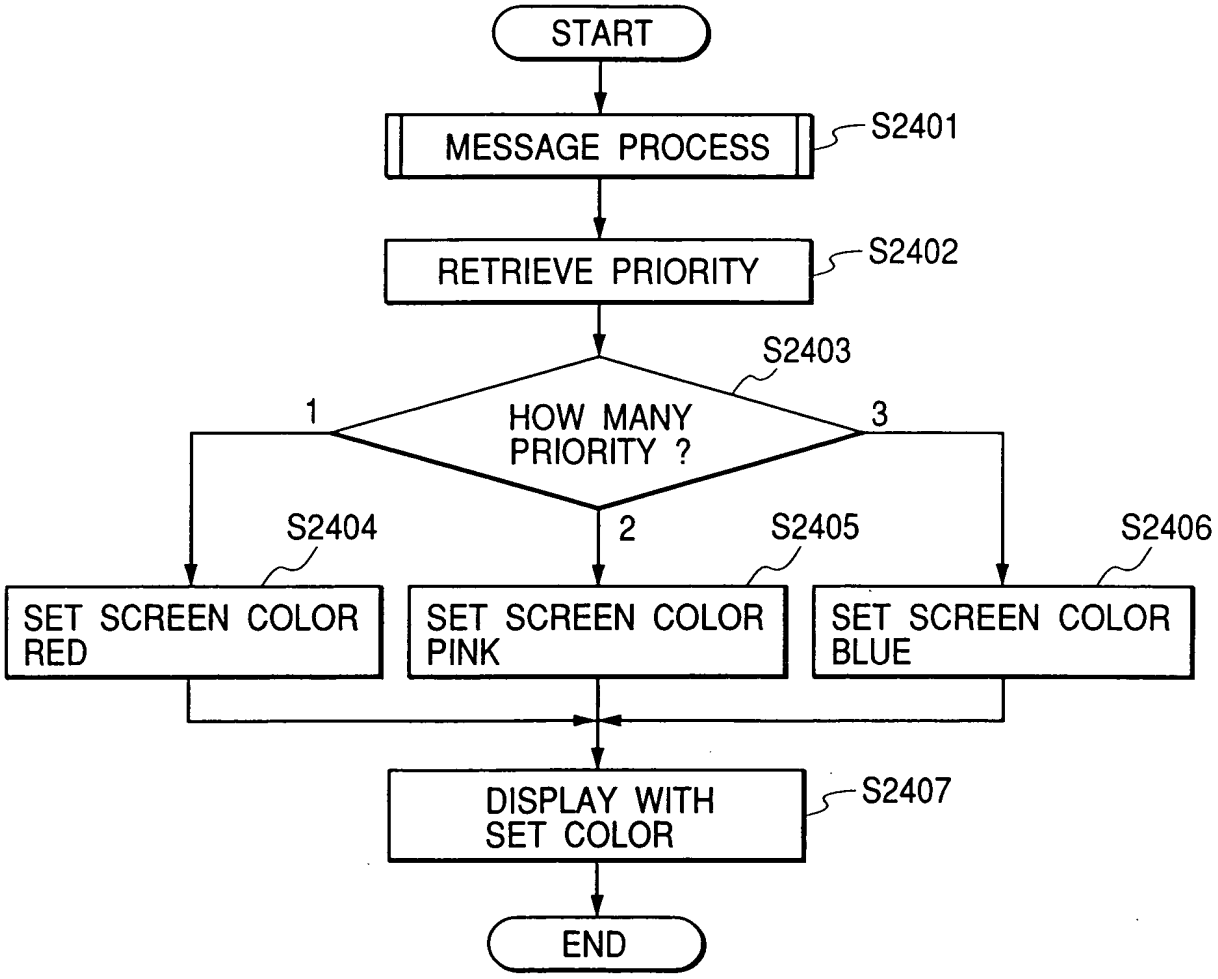

START
MESSAGE PROCESS
S2401
RETRIEVE PRIORITY
S2402
S2403
HOW MANY PRIORITY ?
1
2
3
S2404
S2405
S2406
SET SCREEN COLOR RED
SET SCREEN COLOR PINK
SET SCREEN COLOR BLUE
DISPLAY WITH SET COLOR
S2407
END

FIG. 25

FILE ATTRIBUTE	SCREEN COLOR
ORDINARY FILE	BLUE
FILE PROTECTED BY PASSWORD	RED

FIG. 27

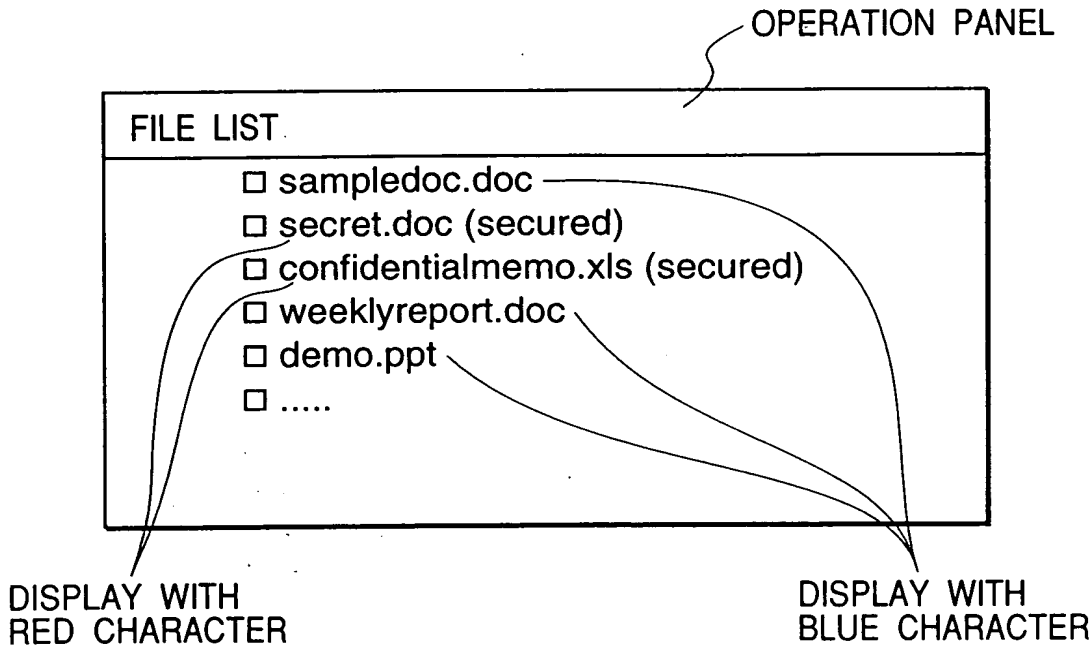


FIG. 26

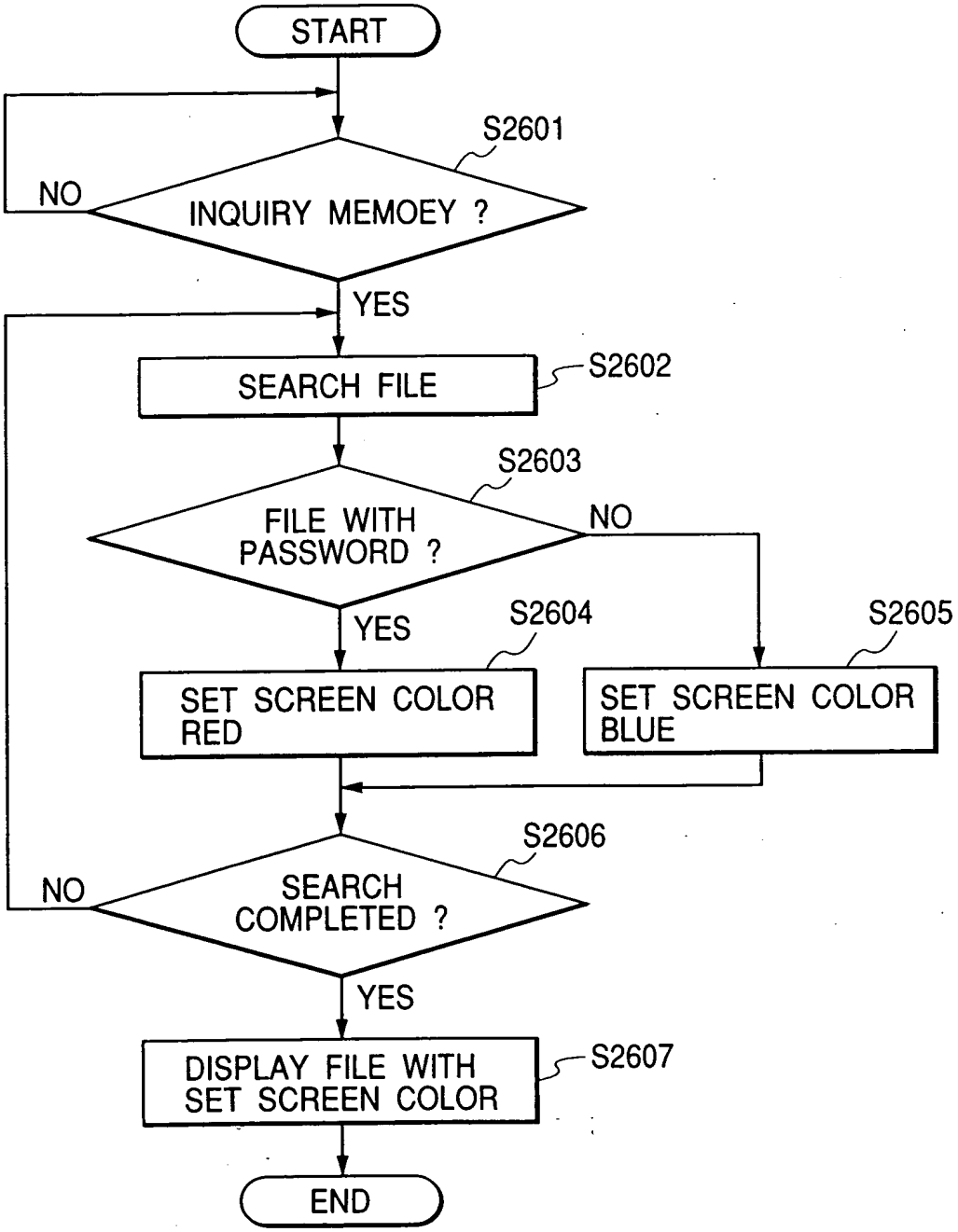

START
S2601
INQUIRY MEMOEY ?
NO
YES
SEARCH FILE
S2602
S2603
FILE WITH PASSWORD ?
NO
YES
S2604
S2605
SET SCREEN COLOR RED
SET SCREEN COLOR BLUE
S2606
SEARCH COMPLETED ?
NO
YES
DISPLAY FILE WITH SET SCREEN COLOR
S2607
END

FIG. 28

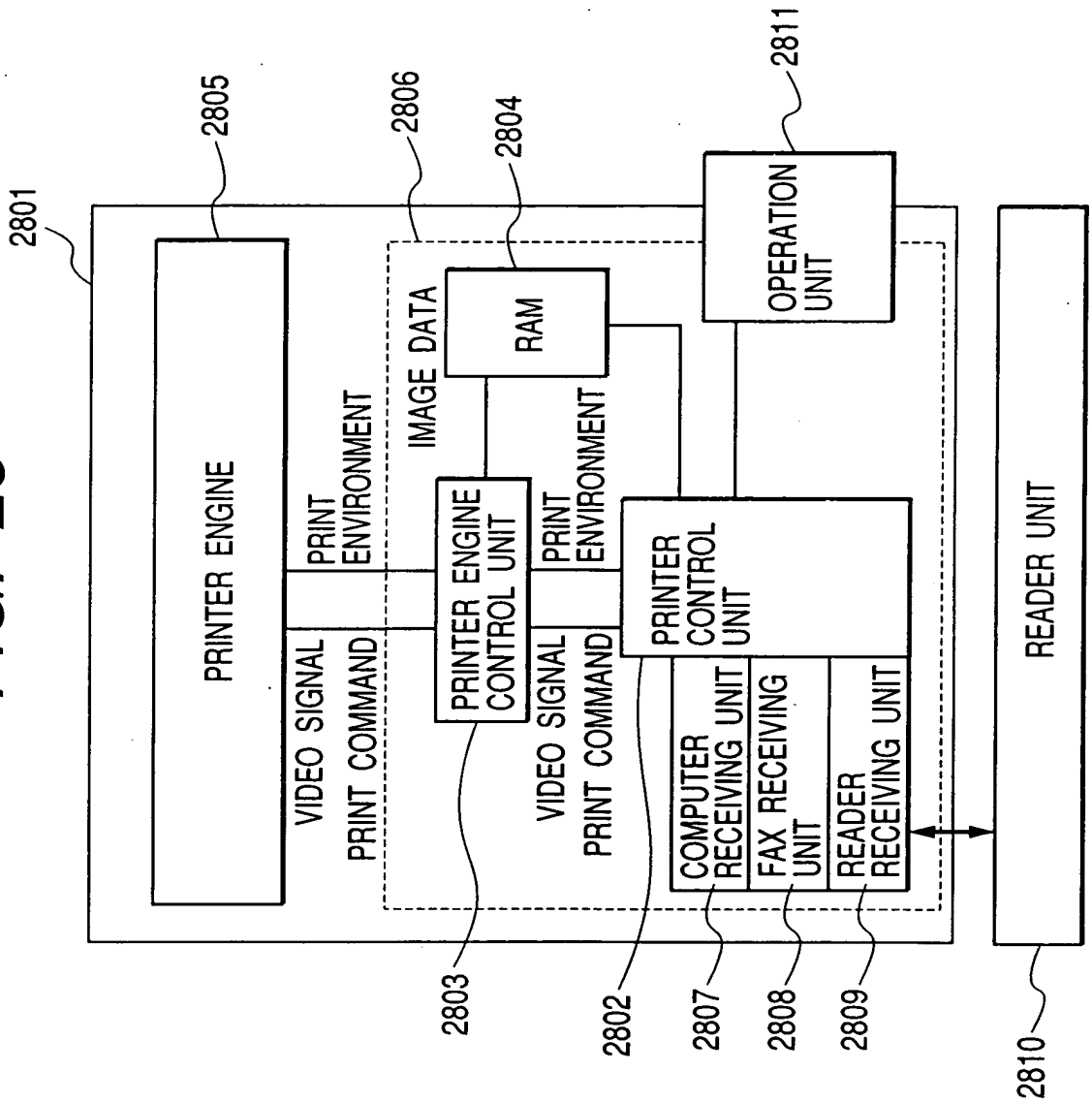

2801
2805
2806
2804
2811
PRINTER ENGINE
PRINT ENVIRONMENT
VIDEO SIGNAL
PRINT COMMAND
IMAGE DATA
RAM
OPERATION UNIT
PRINTER ENGINE CONTROL UNIT
PRINT ENVIRONMENT
VIDEO SIGNAL
PRINT COMMAND
PRINTER CONTROL UNIT
COMPUTER RECEIVING UNIT
FAX RECEIVING UNIT
READER RECEIVING UNIT
READER UNIT
2803
2802
2807
2808
2809
2810

FIG. 29

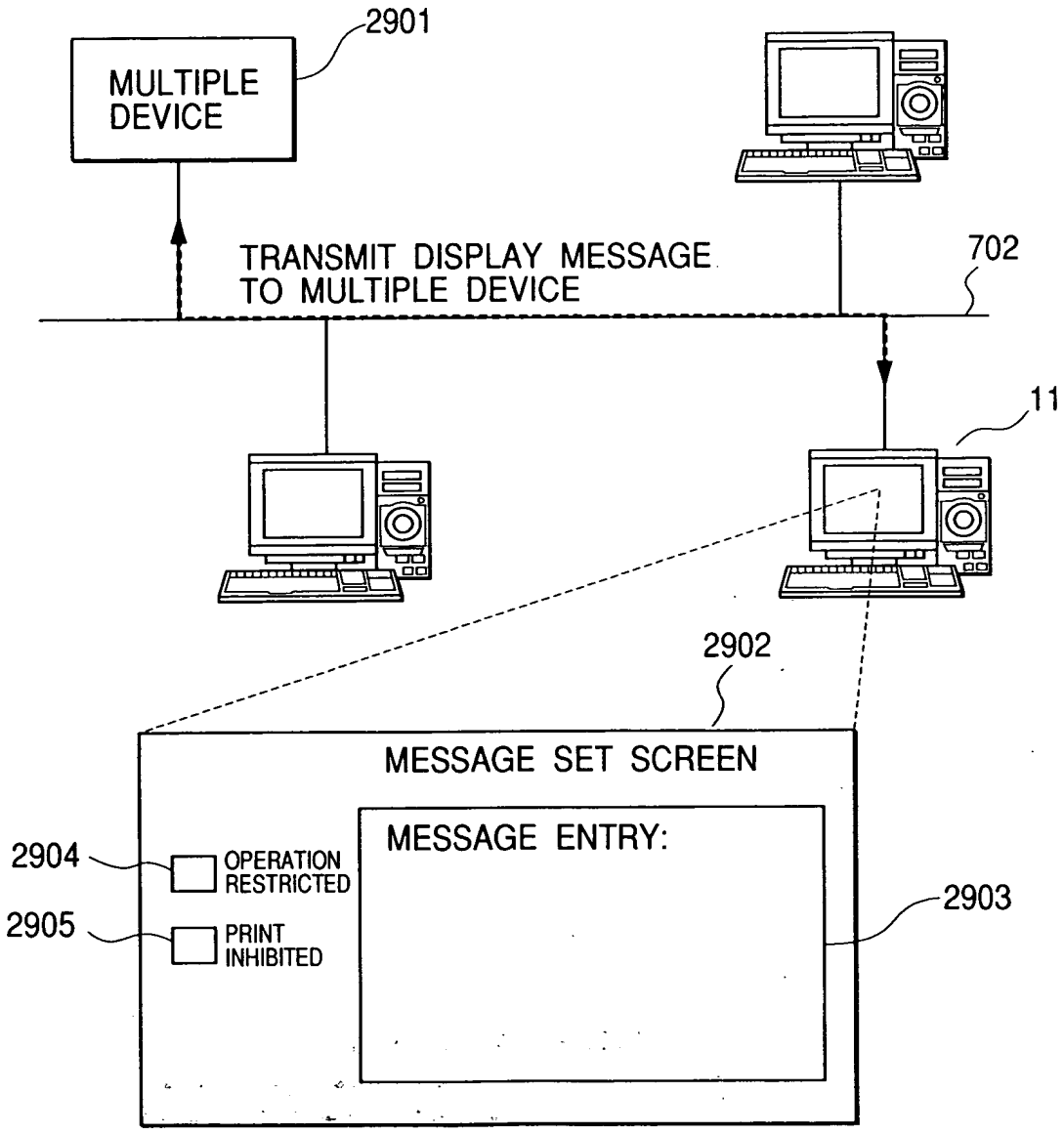
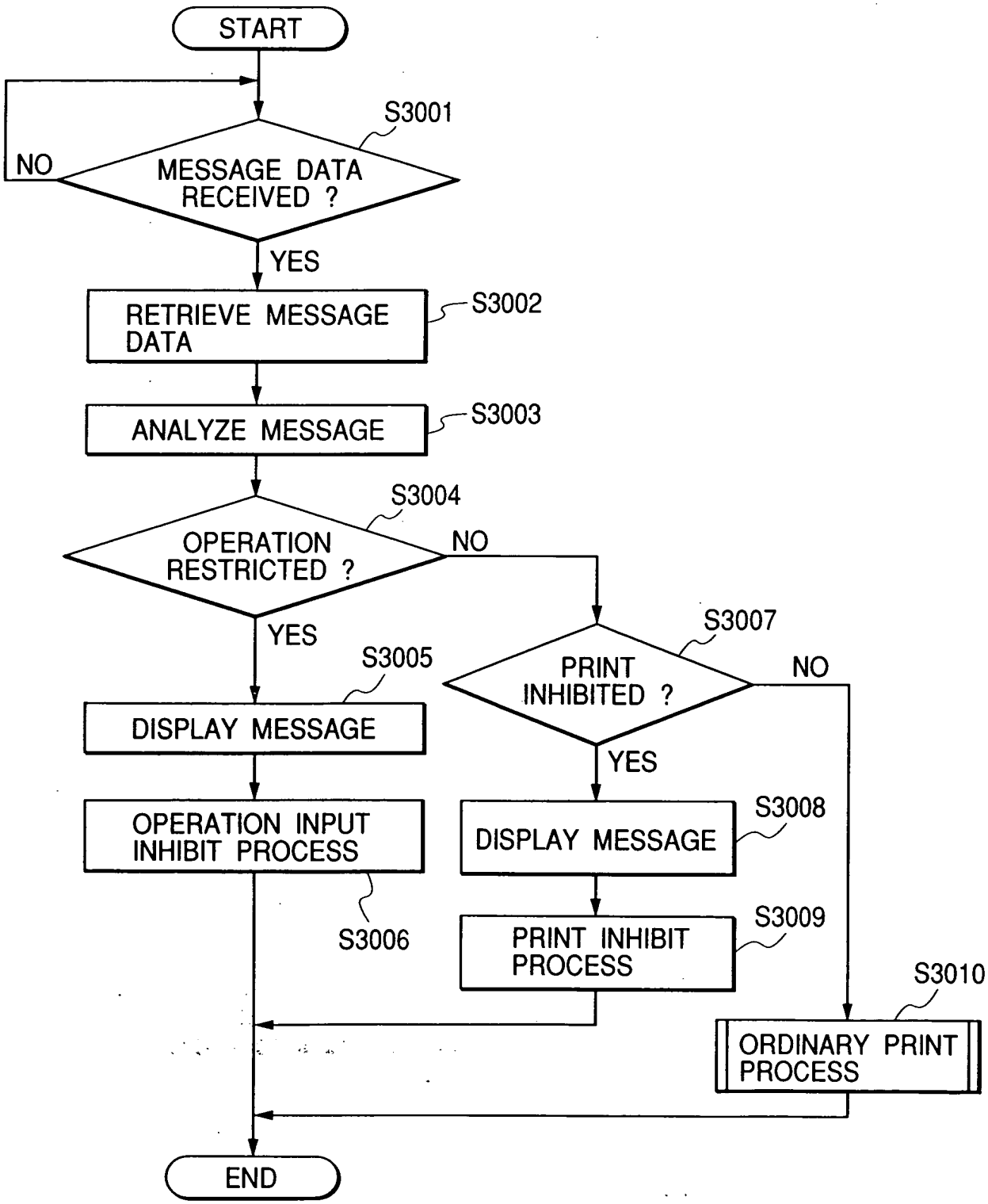

2901
MULTIPLE DEVICE
TRANSMIT DISPLAY MESSAGE TO MULTIPLE DEVICE
702
11
2902
MESSAGE SET SCREEN
MESSAGE ENTRY:
2904
OPERATION RESTRICTED
2905
PRINT INHIBITED
2903

FIG. 30


START
S3001
MESSAGE DATA RECEIVED ?
NO
YES
RETRIEVE MESSAGE DATA
S3002
ANALYZE MESSAGE
S3003
S3004
OPERATION RESTRICTED ?
NO
YES
S3005
DISPLAY MESSAGE
OPERATION INPUT INHIBIT PROCESS
S3006
S3007
PRINT INHIBITED ?
NO
YES
DISPLAY MESSAGE
S3008
PRINT INHIBIT PROCESS
S3009
S3010
ORDINARY PRINT PROCESS
END